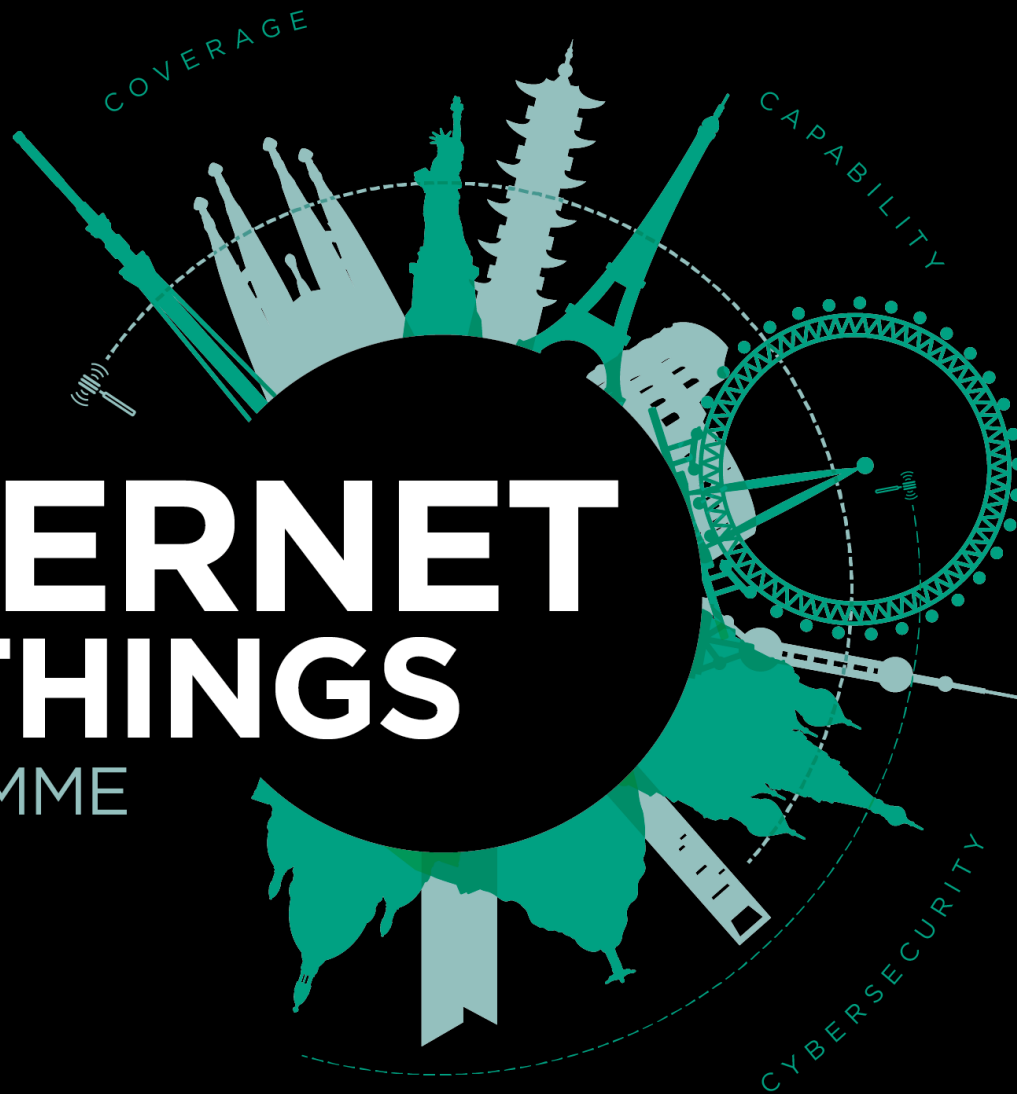




GSMA  
**INTERNET  
OF THINGS**  
PROGRAMME



**SCALING THE IoT**

Enabling a world in which consumers and businesses enjoy rich new services, connected by intelligent and secure mobile networks

# THE GSMA

14 OFFICES  
WORLDWIDE



SHANGHAI



SAN FRANCISCO



BEIJING



NAIROBI



NEW DELHI



LONDON



DUBAI



ATLANTA



BRUSSELS



BARCELONA



HONG KONG



BRASILIA



BUENOS AIRES

Intelligently Connecting  
Everyone and Everything to a  
#BetterFuture



The mobile industry is the  
first to formally commit  
to the UN Sustainable  
Development Goals



nearly  
**9.3 bn**

MOBILE CONNECTIONS  
WORLDWIDE  
(including IoT)



The GSMA  
represents  
the interests  
of mobile  
operators  
worldwide



MORE  
THAN  
**750**  
MOBILE  
OPERATORS



WITH NEARLY  
**400**  
COMPANIES  
in the broader mobile ecosystem



Driving industry  
programmes that  
add value to the  
digital economy

The GSMA works to deliver a regulatory environment that  
creates value for consumers by engaging regularly with:



MINISTRIES  
OF  
TELECOMS



TELECOMS  
REGULATORY  
AUTHORITIES



INTERNATIONAL &  
NON-GOVERNMENTAL  
ORGANISATIONS



The world's leading mobile industry  
events, MWC Barcelona,  
MWC Los Angeles, MWC Shanghai and  
the Mobile 360 Series, together attract  
nearly

**200,000**  
people from across the globe each year



# INTERNET OF THINGS PROGRAMME

## Scaling the IoT

**OUR VISION:** To enable the Internet of Things, a world in which consumers and businesses harness a host of rich new services, connected by intelligent and secure mobile networks.

### CONNECT

#### Mobile IoT

Raise market awareness and support of commercial licensed spectrum LPWA Solutions.



### CAPABILITY

#### Beyond Connectivity

Promote value added services including big data, machine learning, analytics, edge computing and distributed ledger technologies.



### CUSTOMERS

#### Industry Engagement

Working with partners to align strategy and adopt new initiatives, specifically for connected vehicles and drones.



### IoT SECURITY

Enabling a trusted IoT where security is embedded at every stage of the IoT value chain.

### IoT POLICY & REGULATION

Creating a sustainable environment to support the successful scaling of the IoT.

## MEMBERS OF THE IOT PROGRAMME STEERING GROUP:





# Scaling the Market with Mobile IoT

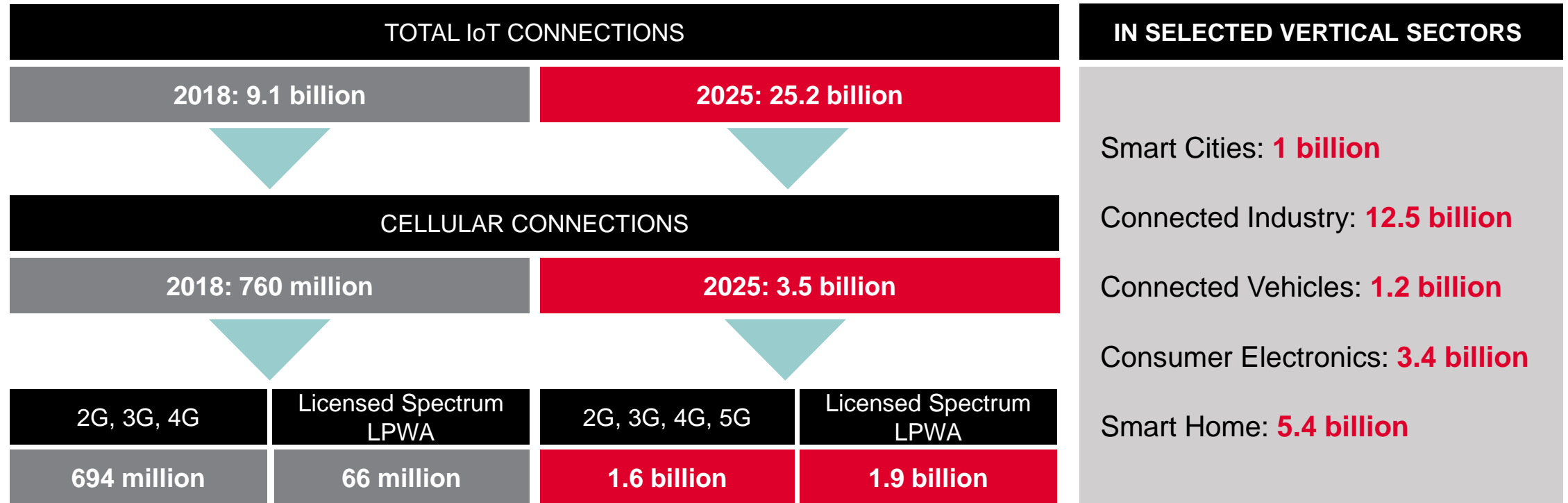
Enabling the Connected Future





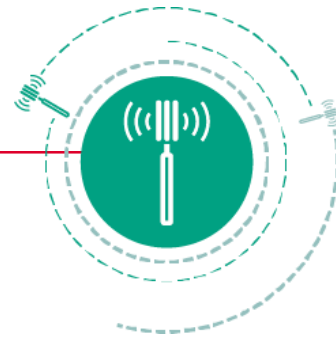
# THE INTERNET OF THINGS BY 2025

## 25 BILLION CONNECTED DEVICES







# MOBILE TECHNOLOGY



IDEAL SOLUTION FOR LOW POWER WIDE AREA (LPWA)

KEY FEATURES	KEY BENEFITS		CHOICE OF TECHNOLOGIES
Low Cost Module	3GPP Standards	Global Coverage	 
Better Coverage	Secure	Scalable	
Long Battery Life	Integral Part of 5G: complimentary technologies	Long-Term Status: 3GPP has confirmed Mobile IoT to evolve with 5G standard	
Low Data Needs			
2-Way Communication			



# MOBILE IoT GLOBAL COVERAGE





LTE-M and NB-IoT, as deployed today, are part of the 5G family



Fulfills 5G requirements for Massive IoT

LTE-M and NB-IoT will continue to co-exist alongside other 5G components



Can be deployed as part of a 5G network

LTE-M and NB-IoT can operate in a 5G NR band



Enables smooth operator migration path to 5G NR bands





# THE VOICE OF A VIBRANT AND FAST-GROWING ECOSYSTEM

## MOBILE IoT INNOVATORS

1500+ companies

## EVENTS

Showcases, Meet-Ups, Q&As

## NEWSLETTERS

Monthly briefings on the latest news, case studies, market developments

## GSMA SUPPORT

90+ MNOs and Vendors

## RESOURCES

Modules, Development Kits, Resource Library

## DIRECTORY

The official industry index for companies working with LPWA technologies in licensed spectrum

## ASK THE MOBILE IoT EXPERTS

Access to leading industry experts and Mobile IoT pioneers

Mobile IoT Innovators membership is free and open to all developers and companies interested in Mobile IoT technologies.

[gsma.com/mioti](http://gsma.com/mioti)

































GSMA MOBILE IoT  
**INNOVATORS**






# MOBILE IoT INNOVATORS DIRECTORY

- Exclusive promotional opportunity for members of the GSMA Mobile IoT Innovators
- Detailed information including target market, industry verticals, company profile, contact details
- Increased exposure to mobile operators and the wider ecosystem, helping to create new business and revenue opportunities in the Mobile IoT market

<p>BeWhere Inc</p>  	<p>BluGem Communications Ltd</p>  	<p>Bosch Group</p>  
<p>CE Lighting Ltd</p>  	<p>CellWize Wireless Technologies Ltd.</p>  	<p>Chengdu Sino-Tech Smart Energy Technology Co., Ltd.</p>  
<p>Chongqing Smart Water Meter Group</p>  	<p>CogLink Technologies (Shanghai) Co., Ltd.</p>  	<p>CommSolid GmbH</p>  
<p>CommuniThings S.A.</p>  	<p>DESSMANN (China) Machinery &amp; Electronic Co.,Ltd.</p>  	<p>Digitanimal</p>  
<p>Doshine Intelligent Technology Co., Ltd.</p>  	<p>Duoxie Information Technologies</p>  	<p>EXFO</p>  



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 PHONE: +34935125138

**NB-IoT**

- Device Manufacturer
- Agriculture & Environment
- Industrial



**TARGET MARKETS:** Global

**COMPANY OVERVIEW:**

We are global providers of innovative enterprise IoT solutions. Our customers give us the idea and we turn it into a reality. Our main business is the wireless device market and we are experts in developing solutions from product development to mass production, in our IoT Factory (Barcelona).

We have wide expertise with IoT technologies like Bluetooth, WiFi, 4G/LTE, and more, and we are leading the industry providing NB-IoT solutions. We believe in the importance of R&D and our company is constantly investigating in new technologies that will help us to provide the best solutions for our customer's needs.

Beacons are another of our business lines. Since this technology burst into market we are one of the iBeacon and Eddystone manufacturers leaders in the world.





# IoT Security by Design

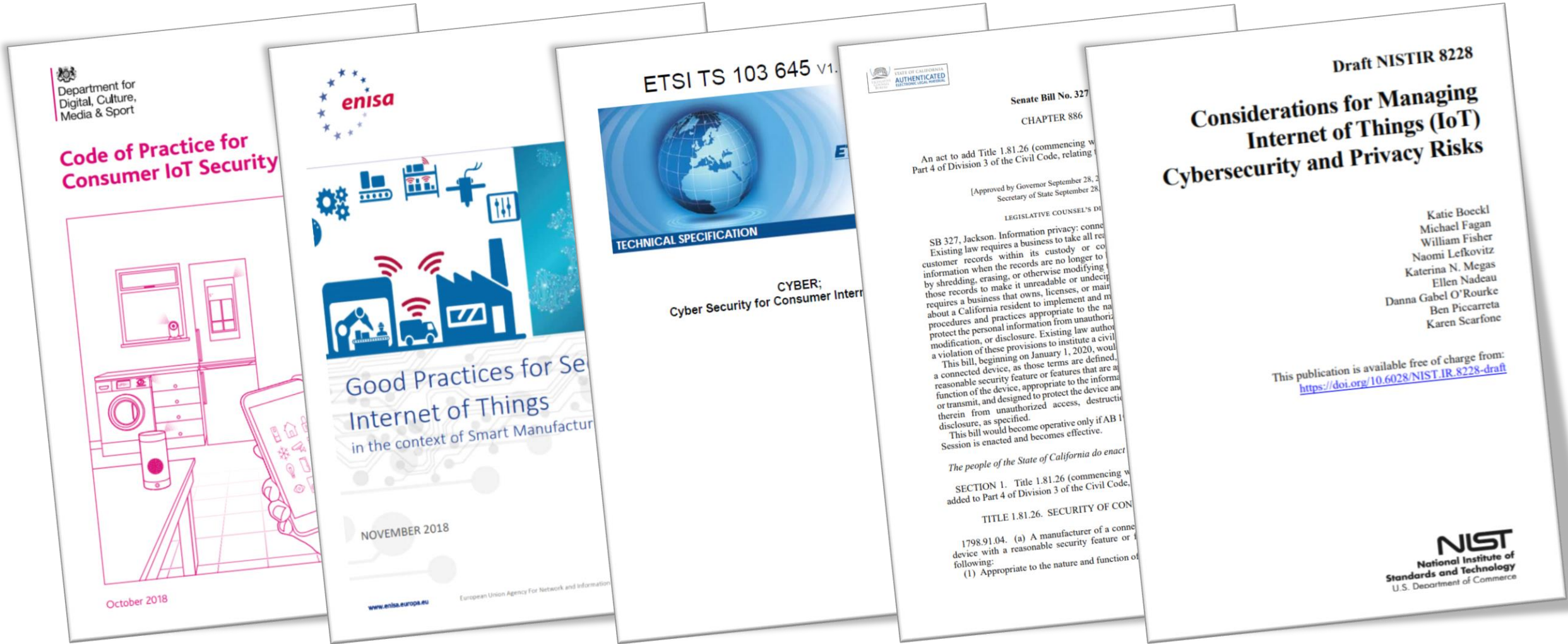
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## Securing the Connected Future





# Regulatory Push for IoT Security – Applying Pressure to Developers





Referenced By:





# GSMA IoT SECURITY GUIDELINES

**Over 200**

pages of advice and best practice to secure devices, service platforms and networks

**85** detailed recommendations

**12** principal attack models

IoT Security Assessment checklist

3 'worked' examples – wearables, personal drone, automotive

**Risk and privacy impact assessments**

Supported by:

**GLOBALPLATFORM**  
THE STANDARD FOR SECURE DIGITAL SERVICES AND DEVICES

**GSA**

**IoTA**  
IoT Alliance Australia

**IoT | WORLD ALLIANCE**

**MEF**  
MOBILE ECOSYSTEM FORUM

**one M2M**

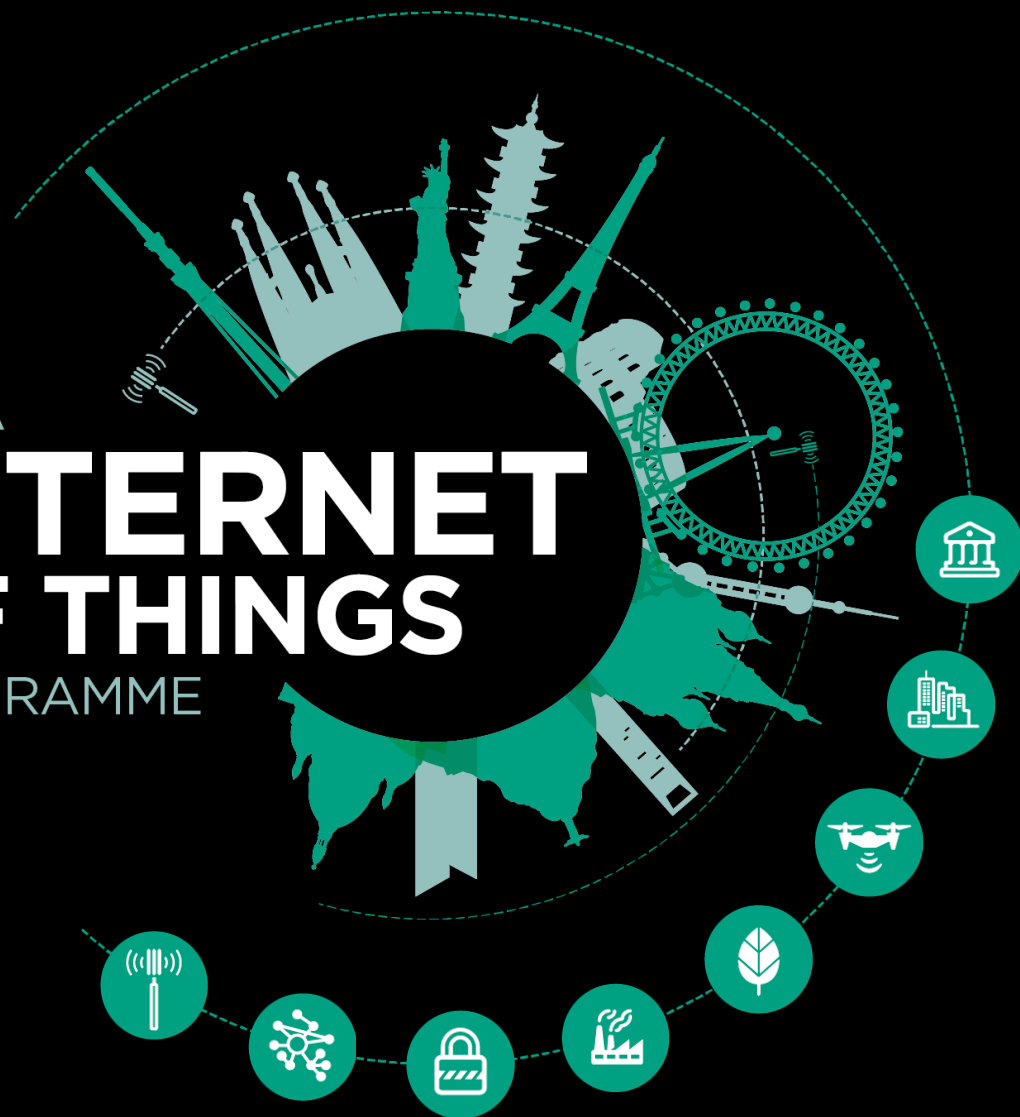
**simalliance**  
Security | Identity | Mobility



GSMA

# INTERNET OF THINGS

PROGRAMME



**FIND OUT MORE:**  
[gsma.com/loT](http://gsma.com/loT)

**GET IN TOUCH:**  
[iot@gsma.com](mailto:iot@gsma.com)

**FOLLOW ON LINKEDIN:**  
[www.gsma.at/loT](http://www.gsma.at/loT)